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## **1993 SEFI: Overview of Performance-Based Training Development Process. Educational Technologist's Role to achieve quality in teaching and learning.**

Adrian Adascalitei, Dan Galea

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# ACHIEVING AND ASSESSING QUALITY OF ENGINEERING EDUCATION

PREPRINT

SEFI Annual Conference and  
20th Anniversary  
28th of June - 1st of July 1993

at Luleå University of Technology

 **TEKNISKA  
HÖGSKOLAN I LULEÅ**  
LULEÅ UNIVERSITY OF TECHNOLOGY

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Overview of Performance-Based Training Development Process.  
Educational Technologist's Role to achieve quality in teaching  
and learning.

Adrian A. ADASCALITEI, ICEE Iasi  
Dan GALEA, Iasi University of Technology

Today's students must be educated to face a world that is becoming increasingly complex: a highly technical and information-oriented society where individuals must absorb an explosion of information as well as new theories and discoveries. The rapid advance of computer technology has fueled this process, making vast amounts of information available to those who have learned to use a computer.

- The basic elements to include technology in the curriculum are:
- preparation of models for teaching-with-technology;
  - design of intelligent software;
  - creation of technologically based tools to support teachers' professional work and development;
  - improvement of research about technology in education.

- Computer related competencies needed by teachers are :
- ability to solve simple computer related problems;
  - thorough understanding of the application of the computer to motivate student learning;
  - ability to effectively utilize the computer as an instructional aid.

The Educational Technologist has a key role to achieve quality being involved in the following activities:

- curriculum construction;
- educational administration;
- design, production and evaluation of instructional materials and/or programs;
- media utilization for education (i.e. television, computers, etc.);
- library and information science;
- select area of psychology (i.e. cognitive psychology) and sociology (i.e. diffusion and adoption of innovations).

Iasi, October 17, 1992

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1993 Lulea (Sweden) Achieving and Assessing Quality of Engineering Education

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